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 SECURITY INFORMATION
 CENTRAL INTELLIGENCE AGENCY

REPORT NO. [REDACTED]

INFORMATION REPORT

CD NO.

25X1A

INTELLOFAX 18

COUNTRY USSR (Sverdlovsk Oblast)

DATE DISTR. 17 March 1952

SUBJECT BAZ Aluminum Works in Krasnoturinsk

NO. OF PAGES 3

PLACE
ACQUIRED [REDACTED]NO. OF ENCLS. 40
(LISTED BELOW)DATE OF
INFO. [REDACTED]SUPPLEMENT TO
REPORT NO.

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1. Location

The BAZ Aluminum Works is west of the Turinsk (63-40 E/ 58-03' N) railroad station, Sverdlovsk Oblast, between the railroad line and the highway leading to the northwest and northeast of a storage basin.

2. Plant Layout

a. The plant area is about 1,000x500 meters. Soviets said the construction of the installations was started about the beginning of World War II. According to other Soviet information some parts of the plant installations and the power plant came from an aluminum plant in the Don area. This plant was put into operation about 1942. A considerable enlargement of the plant has been in progress since the end of the war. Electricity is supplied from the factory-owned power plant which was also enlarged. A railroad spur track and three access roads are available.

b. An unknown installation with the designation of "Series 5" is northeast of the plant across the railroad line. Only selected Soviets, who hold special identity cards, are employed there.

3. Work force

At least 15,000 workers (estimate), 50 percent women, in three shifts.

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4. production

Three classes of aluminum bars. The rate of production is unknown. It was to be doubled after the completion of the new building according to a Soviet engineer. For layout sketch see Annex 1.

Reference is made to Annex 2, a front view of the electrolysis department seen from the south, and to Annex 3, a front view of the furnace-like exhaust installation of the bauxite works seen from the southeast. For location of the plant see Annex 4.

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comment:

a. Due to the contradictory information furnished by individual sources and the disagreement of most of these reports with old data secured during the war, it is very difficult to judge the information on the Turinsk aluminum works.

On the basis of the drawings of the previous sources, all of whom located this aluminum works close to the western outskirts of Turinsk, it was assumed that there might be several large aluminum works near Turinsk.

b. This report is very valuable for clarifying these discrepancies.

Source designates this plant as BIZ, i.e. "Bogoslovski Aluminum Saved." It is therefore evident that this plant is the old factory which has been reported since 1939 and which, also according to news published in the Soviet press, is being enlarged all the time. Source's location sketch (Annex 4) also bears the most resemblance to the old data secured during the war. According to this location sketch, this plant is at least 4 km northwest of the town of Turinsk. In connection with the enlargement of this factory, the town quarters of Krasno-Turinsk and Nov-Turinsk were set up between Turinsk and the factory.

The layout sketch (Annex 1) is the most detailed reproduction obtained so far. The data on the main buildings of this factory, especially on the newly constructed electrolysis department and the power plant, conform to previous reports. All previous reports no doubt concerned the same factory.

It is not possible to judge the correctness of the layout sketch and further information is required for clarification. In view of the progressing enlargement, such information should be based on observations made at the latest practicable date.

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d. The installation north of this factory, across the railroad line, apparently is the newest department of the factory. Almost all sources designated it as "series 5".

e. This may be the approximate location of the aluminum works area: At least 4 km. northwest and/or west of the town of Turinsk indicated on the maps, some kilometers north of the landmark of a storage basin extending from the east to the west, and on both sides of a railroad line coming from a southern direction. It was not clarified where this railroad line leads. According to some sources, it leads to Volchanka; according to others, it is a branch of the trunk line and leads in a western direction to Karpinsk. The latter data would conform to the information gathered during the war.

f. As suitable charts are not available, it is not possible to exactly locate the factory and its apparently far-extending branches. A correct picture would surely result from an evaluation, on 1:50,000 or 1:100,000-scale maps, of all reports obtained. 25X1X

Attempts will be made to clarify at least the exact layout of this works through further information and to obtain accurate and confirmed data on the construction and the size of the individual buildings of this plant.

- 4 Annexes:
- (1) BAZ aluminum works in Turinski
 - (2) Front view of Electrolysis Department (seen from south)
 - (3) Front View of furnace-like exhaust installation
 - (4) B.Z aluminum works in Turinski

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Comment: The BAZ is the Bogoslovski Aluminum Works at Krasnoturinsk.

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Attachment 1
Page 1Legend to Annex 1

A BIZ Aluminum Works

- 1 Entrance and gatehouse
- 2 Factory kitchen, three-story wooden building, 25x8 meters
- 3 New building of the power plant repair shop, brick construction, 40x10 meters
- 4 Workshop under construction, 30x10 meters
- 5 Outside transformer station
- 6 Brick building, 50x10 meters, under construction
- 7 Power plant with three boilers, turbines, and generators of Soviet and six of British make each
 - a Power plant section in operation, steel frame brick construction, 30x30x12 meters with two smokestacks of brick construction, 54 and 40 meters high, 8 meters in diameter at the ground
 - b New addition of steel frame brick construction, 30x20 meters with new smokestack, three vertical tube boilers, turbines not yet installed
 - c Coal conveying installation
- 8 Brick transformer house, 30x10x6 meters, AEG-type installation
- 9 Passageway of iron concrete construction, 2 meters high, 2 meters wide
- 10 Three cooling towers, 12x12x50 meters, of steel frame wood construction
- 11 Machine shop and forge, brick construction, 30x10 meters
- 12 Foundry and machine shop of the same construction as No 11 with two cupola furnaces
- 13 Scrap yard
- 14 Wooden building
- 15 New building for the R&L machine shop, 25x30 meters
- 16 Brick garage, 40x30 meters
- 17 New building of steel frame brick construction, 60x18 meters with

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Attachment 1
 Page 2

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- a. smokestack 86 meters high
- b. attachment of unknown purpose, production of carbon graphite stones
- 18 Two wooden buildings 10x10 meters
- 19 Material storage yard
- 20 Foundations for new workshop 80x30 meters
- 21 Two storage towers for powdered aluminum, 6 meters in diameter, 16 meters high
- 22 Electrolysis department, steel frame brick construction, 100x30x10 meters. Ventilation pipes on the roof, 200 tubs, 5x3 meters
- 23 Administration building, 20x10 meters, three stories
- 24 So-called RIZ machine shop, steel frame wood construction, 50x30 meters, housing foundry, forge, several casting and annealing furnaces
- 25 Two machine shops, wooden buildings
- 26 Warehouse, wooden building 50x10 meters
- 27 Soda warehouse, wooden building, 40x18 meters
- 28 Bauxite warehouse of steel frame wood construction with vault roof 30x20 meters
- 29 Hammer mill, wooden building, 30x5 meters
- 30 Coal pulverizing mill, building of slagstone construction, 25x8 meters with
 - a. coal stock piles
 - b. conveyor belts
- 31 Warehouse, wooden building, 30x5 meters
- 32 Ball mill, concrete construction, 30x25x10 meters, with
 - a. conveyor belts
- 33 Bauxite yard with electrically operated filters and four rotating iron rolls 40 meters long, 2½ meters in diameter, for burning, steel frame slagstone construction, 70x35x10 meters with
 - a. four furnace-like exhaust installations, 4 meters in diameter and 15 meters high each (refer to special front view sketch). So-called Spe-gani department

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Attachment 1
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- B Series S
- C Cement and concrete factory
- D Municipal power plant
- E Sawmill
- F Water tower
- G Pump station
- H Water tanks in bunkers
- I Storage yards
- K Quarry

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Attachment 4
Page 1

Legend to Attachment 4

- 1 aluminum works
- 2 Series 5
- 3 Concrete factory
- 4 municipal power plant
- 5 Sawmill
- 6 Water tower
- 7 Garages
- 8 Building, slagstone concrete construction
- 9 PW camp No 7504
- 10 Brickyard
- 11 Copper shaft

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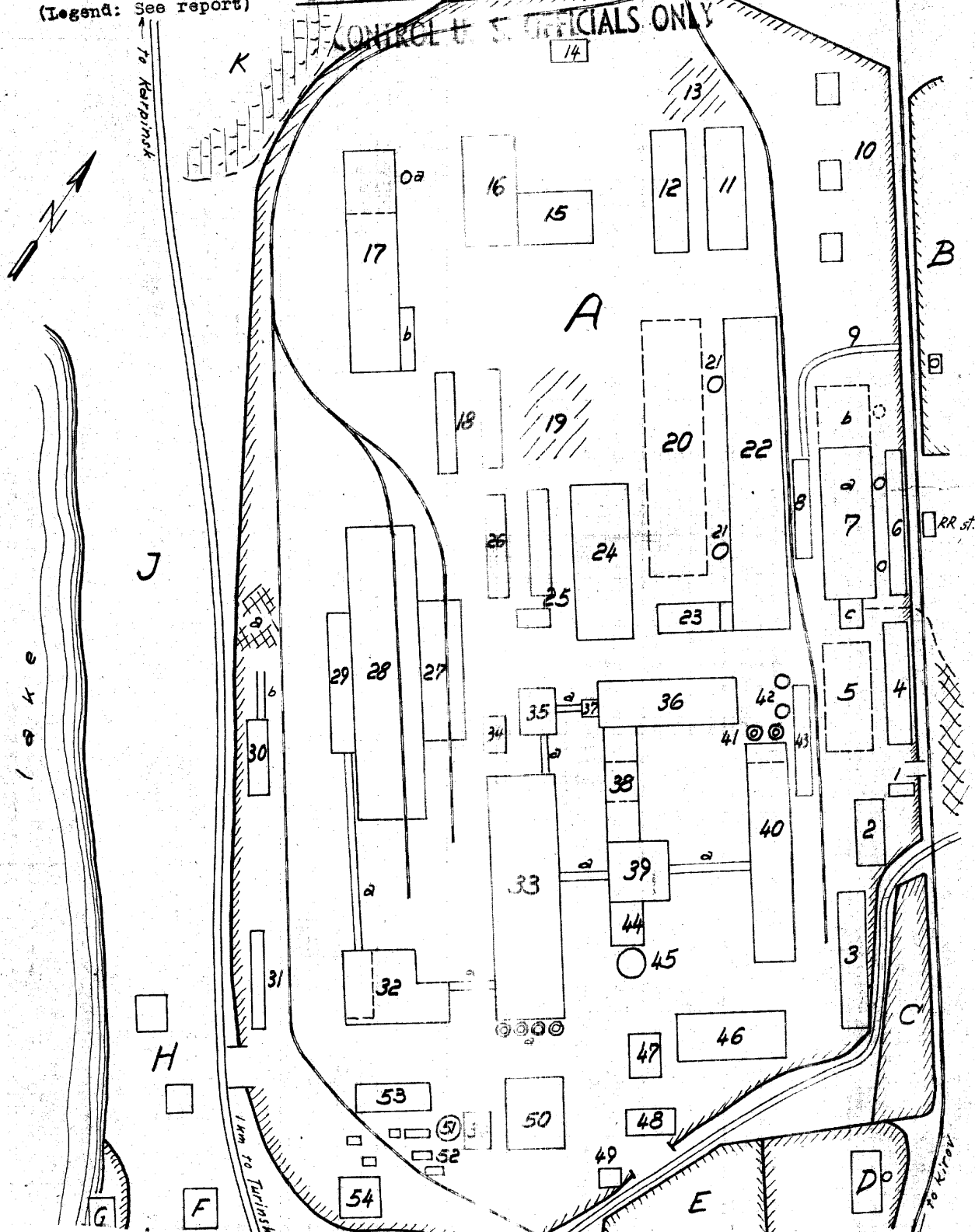
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(Legend: See report)

"BAS" Aluminum Works in Turinski

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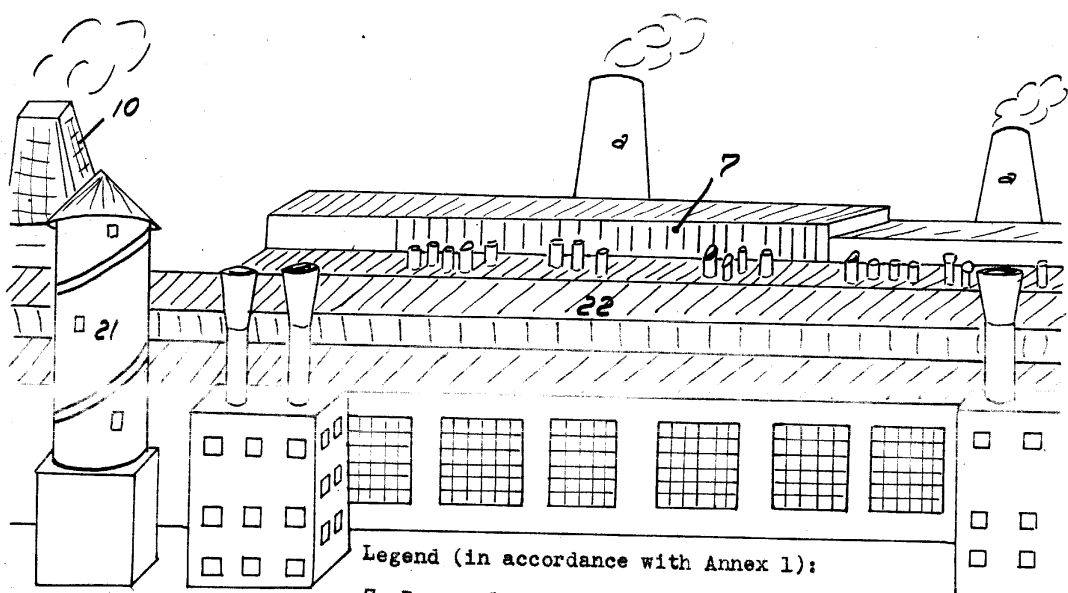
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Front View of Electrolysis Department (seen from south)

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Legend (in accordance with Annex 1):

- 7 Power plant with a Smokestack
- 10 Cooling tower
- 21 Storetower for powdered aluminum, 6 meters in diameter, 16 meters high
- 22 Electrolysis department with ventilation pipes on the roof and small attachments

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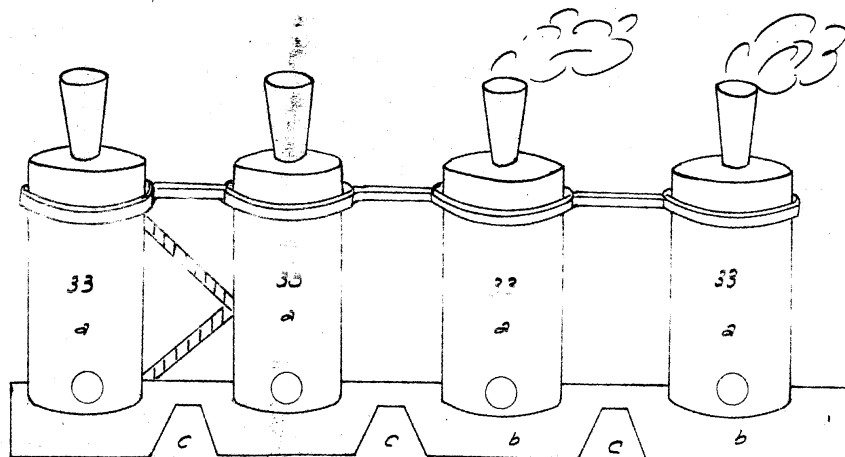
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Annex 3 to

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Front View of Furnace-Like Exhaust Installation



Legend (in accordance with Annex 1):

- 33 a Four furnace-like exhaust devices, each 4 meters in diameter and 15 meters high
- b Concrete bases
- c Passageways

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SECURITY INFORMATION

"BAS" Aluminum Works in Turinsk

Central Intelligence Agency
(Legend: See report)

Railroad station

settlement

storage
basin

New Turinsk

Krasni Turinsk

Old Turinsk

River

(name unknown)

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